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SOLUTIONS OF PROBLEMS

2790 [1919, 414]. Proposed by J. W. LASLEY, JR., University of North Carolina.

How shall we buy twelve eggs for eighty cents, if hen eggs sell at five cents each, duck eggs at seven cents each, and turkey eggs at eight cents each, and if we buy some of each?

SOLUTION BY C. A. ISAACS, State College of Washington.

Let x, y, z , be the number of eggs of each kind, respectively. Then

$$x + y + z = 12,$$

$$5x + 7y + 8z = 80.$$

Eliminating x ,

$$2y + 3z = 20, \quad \text{or} \quad y = 10 - \frac{3z}{2}.$$

Since y is an integer, this value of y , though fractional in form, must be an integer. Therefore, z is even. Assigning even values to z , beginning with 2, we get three sets of answers satisfying the conditions of the problem: $z = 2, y = 7, x = 3$; $z = 4, y = 4, x = 4$; $z = 6, y = 1, x = 5$.

Also solved by H. N. CARLETON, H. L. OLSON, ARTHUR PELLETIER, and E. E. WHITFORD.

NOTES AND NEWS

It is hoped that readers of the MONTHLY will cooperate in contributing to the general interest of this department by sending items to the Editor-in-Chief.

Miss MARY C. BALL has been appointed instructor in mathematics at Northwestern University.

Assistant Professor J. N. MICHIE, of the Agricultural and Mechanical College of Texas, has been appointed adjunct professor of applied mathematics at the University of Texas.

Assistant Professor A. C. MADDOX, of the Oklahoma Agricultural and Mechanical College, has been appointed professor of mathematics at the Louisiana State Normal School at Natchitoches.

Professor J. B. FAUGHT of the Kent (Ohio) State Normal College has been made professor of mathematics in Yankton College.

Dr. G. W. SMITH, of the University of Kentucky, has been appointed assistant professor of mathematics in the University of Kansas. He taught during the past summer in the summer session of the University of Colorado.

Professor R. A. WELLS, of Park College, has been made associate professor of mathematics at Michigan State Normal College.

Mr. CORNELIUS GOUWENS, of the University of Kansas, has been appointed assistant professor of mathematics at Iowa State College.

Professor C. E. HORNE, of the University of Porto Rico, has been made dean of the college of agriculture and mechanic arts of the university at Mayagüez, P. R.

At the University of Iowa, Assistant Professor E. W. CHITTENDEN has been promoted to an associate professorship; Dr. W. H. WILSON has been promoted from an instructorship to an associateship; Dr. ROSCOE WOODS, of the University of Illinois, has been appointed instructor in mathematics; Mr. H. M. JEFFERS of the Lick Observatory has been appointed instructor in mathematics and astron-